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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
November 17, 1971

IN THE MATTER OF:

Application of Anadarko Pro-
duction Company for a water-
flood expansion, Lea County,
New Mexico.

Case No. 4627

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

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I N D E X

WITNESS

PAGE

Clarence Stumhoffer

Direct Examination by Mr. Kellahin

4

EXHIBITS

Exhibit No. 1

6

Exhibit No. 3

10

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1 CASE NO. 4627:

2 HEARING EXAMINER: Case 4627: Application of
3 Anadarko Production Company for a water-flood expansion, Lea
4 County, New Mexico.

5 MR. KELLAHIN: I am Jason Kellahin, Kellahin & Fox,
6 Santa Fe, appearing for the applicant, and I have one witness I
7 would like to have sworn, and three exhibits marked.

8 (Whereupon applicant's Exhibits 1, 2, and 3 were marked
9 for identification by the Reporter.)

10 HEARING EXAMINER: Other appearances in the case? If
11 there are none, you may proceed.

12 CLARENCE STUMHOFFER

13 a Witness, having been first duly sworn according to law, upon
14 his oath testified as follows:

15 DIRECT EXAMINATION

16 BY MR. KELLAHIN

17 Q Would you state your name, please?

18 A Clarence Stumhoffer.

19 Q Whom are you employed by and in what position?

20 A Anadarko Production Company, Fort Worth, Texas, as
21 supervisor of the second recovery division.

22 Q Have you testified before the Oil Conservation Commission
23 or one of its Examiners and made your qualifications a
24 matter or record?

25 A Yes.

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1 MR. KELLAHIN: Are the witness' qualifications
2 acceptable?

3 HEARING EXAMINER: Yes.

4 Q (By Mr. Kellahin) Are you familiar with the application of
5 Anadarko Production Company in Case 4627?

6 A Yes.

7 Q Briefly, what is proposed by the applicant in this case?

8 A The applicant, Anadarko Production Company, in this case,
9 4627, seeks Oil Conservation Commission approval to expand
10 the Langlie-Mattix Penrose Sand Unit Water Flood Project
11 by drilling for water injection wells at non-standard
12 locations near the outside boundaries of the unit area, to
13 provide back up water injection to outside Langlie-Mattix
14 Penrose sand under its producing wells.

15 Q The Penrose sand unit is a water flood project that has
16 been approved by the Commission, is it not?

A Yes.

17 Q You are presently injecting water in injection wells in
18 that project?

19 A Yes, we are.

20 Q Would you give the location of the proposed new injection
21 wells?

22 A I would like to refer you to Exhibit No. 1, a map of the
23 Langlie-Mattix Penrose Sand Unit that shows the present
24 water flood development and the proposed water flood
25 development that we are requesting in this hearing.

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1 The proposed locations are shown in red on the map,
2 and I would like to refer to those at this time.

3 The first well is Well No. 8-5, to be located ten feet
4 south of the north line of Section 21, Township 22, South
5 Range 37 East, Lea County, New Mexico.

6 The next well would be Well No. 1-2, to be located
7 1,310 feet north of the south line, 1,310 feet east of the
8 west line of Section 14, same township and range.

9 The third well, No. 2-2 is proposed to be located 990
10 feet south of the north line, 1,310 feet east of the west
11 line of Section 23, same township and range, and the fourth
12 well, No. 40-1 is proposed to be located 1,650 feet north
13 of the south line, 1,310 feet east of the west line of
14 Section 23, same township and range.

15 The first well, No. 8-5, is offset to the northeast
16 and southwest by two producing wells that could have the
17 unitized formation open.

18 The northeast offset is Anadarko Cole No. 3. That,
19 for proration purposes, is carried in the Penrose-Skelly
20 field, and Anadarko is the owner of this 100 percent owner
21 of this No. 3, and the second well is Miller Deck No. 1
22 Patsy, located to the southwest of the proposed injection
23 well.

24 It is carried in the Langlie Mattix oil pool and it
25 also has the Penrose or United formation open for

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1 production.

2 We are in verbal negotiations with Miller Deck and
 3 Anaconda as the owner of the Cole well as to a
 4 cooperative or joint venture in drilling this injection
 5 well.

6 There was no objection to the drilling of the well,
 7 just a matter of the ownership of the well.

8 The other three wells, number 1-22-2 and 40-1 are
 9 located on the east side of the Langlie Mattix Penrose Sand
 10 unit, and there are no producing wells outside of the unit
 11 area offsetting this eastern boundary producing from the
 12 unitized formation.

13 Now, I might add, along the north boundary of the
 14 unit we show a proposed development along that line, well
 15 number 73--

16 Q Inside the unit?

17 A Inside the unit area.

18 Q Yes.

19 A Well No. 3-3. Well No. 7-3 5A-1 and 3-388 are proposed for
 20 conversion to water injection in a cooperative agreement
 21 with the offset operators to the north. We propose to
 22 convert these wells under the provisions of Order 3247
 23 dated June 5, 1967, which allows for administrative
 24 approval to convert injection wells within the unit area.

25 Q Now, you also show some injection wells outside the unit

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- 1 on the northern boundary. What is the status of those
2 wells?
- 3 A Those are proposed injection wells to be converted by the
4 offset operator.
- 5 Q That would be under a proposed lease-line agreement?
- 6 A A lease-line agreement.
- 7 Q They have not yet been converted?
- 8 A We are in negotiation on the lease-line agreement at this
9 time.
- 10 Q In referring to what has been marked as Applicant's Exhibit
11 No. 2, would you identify that exhibit?
- 12 A Exhibit No. 2 is a log of Langlie Mattix Penrose Sand Unit
13 No. 55-3 located in the northwest quarter of the northeast
14 quarter of Section 28, Township 22, South Range 37 East,
15 showing the unitized formation which is the Penrose sand,
16 and we present this as an exhibit as the log of a typical
17 well, the type of section that we anticipate in drilling
18 of the four proposed wells.
- 19 Q That is the zone in which you will inject water?
- 20 A That is the zone we will inject water into.
- 21 Q In referring to Exhibit No. 3, would you identify that
22 exhibit?
- 23 A Exhibit 3 is a diagrammatic sketch of the typical water
24 injection well completion. In this case it is the
25 completion of the Well No. 25-3, of which we just submitted

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1 the log, showing the perforations, the casing program, and
2 the type of injection hookup we have.

3 Also on this exhibit we have shown the proposed
4 injection rate of 500 barrels of water per day at 2,100
5 pounds pressure down 2 3/8ths inch O.D. tubing, that is to
6 be internally coated to be set on the tacker immediately
7 above the perforation in the casing.

8 Q Do you fill the tuber casing with an inner fluid?

9 A Yes.

10 Q Is this the type proposed for this injection well?

11 A Yes, that is correct.

12 Q There may be some difference in perforation?

13 A Yes, this is just to show a typical completion of four
14 proposed wells.

15 Q Your source of water is from Skelly Oil?

16 A That is correct.

17 Q Is that the same water you are using in the balance of the
18 water flood project?

19 A That is right.

20 Q Have you had, encountered any problem in using that water?

21 A No, we haven't.

22 Q Were Exhibits 1 and 2 and 3 prepared by you or under your
23 supervision?

24 A Yes.

25 MR. KELLAHIN: At this time I would like to offer in

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1 evidence Exhibits 1, 2, and 3.

2 HEARING EXAMINER: Without objection, Exhibits 1, 2,
 3 3 will be entered into the record of this case.

4 MR. KELLAHIN: If the Examiner, please, we also have
 5 a letter from the oil company advising they have no objection
 6 to the proposed injection wells as presented in this hearing.

7 THE WITNESS: I would like to request that--we have
 8 three of these proposed injection wells that are budjeted for
 9 1971, and we have made a tentative commitment for a rig on
 10 approximately the first week in December, and if at all
 11 possible, we would like to have an indication of approval on
 12 this in time so we could act on this drilling operation during
 13 this year.

14 HEARING EXAMINER: It shouldn't be too long before you
 15 have a decision on it.

16 Q Mr. Stumhoffer, have you been using any inner fluid in
 17 your inlet on any of your other injection wells?

18 A We use it in just a water--not--we monitor the back side of
 19 the casing, see.

20 Q There is no leakage, there is no chemical treatment?

21 A The water is treated with corrosion inhibitor.

22 Q That would be considered fluid, wouldn't it?

23 A Yes.

24 Q Is the tubing lined in this injection well?

25 A Yes, it is lined with a plastic liner.

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MR. HATCH: Is there a guage on the annulus or is it left open?

A It is left open. Our pumpers make the wells every day, and they would detect any leakage.

HEARING EXAMINER: Are there any other questions of the witness?

You may be excused.

Statements in the case?

The next case will be taken under advisement and the hearing is adjourned.

